



Joseph A. Gowers – Project Manager  
Southern New Jersey Remediation Section  
USEPA Region II  
290 Broadway, 19<sup>th</sup> Floor  
New York, New York 10007-1866

Subject:

**Request to Backfill  
Mine Tailings removal Area SR-3  
Ringwood Mines/Landfill Site, Ringwood, New Jersey**

Dear Mr. Gowers:

ARCADIS U.S, Inc. (ARCADIS), on behalf of the Ford Motor Company (Ford), is submitting this technical memorandum on the Mine tailing removal activities in SR-3 at the Ringwood Mines/Landfill Site, Ringwood, New Jersey. This letter summarizes post-excavation analytical results and confirms the effectiveness of the removal work.

#### **Background**

Results of post-excavation sampling conducted within paint sludge removal area SR-3 during the period from 2005-2007 indicated that arsenic and other constituents remained within mine tailings and fill at select locations at concentrations above NJDEP residential direct contact criteria. Targeted removal activities were subsequently conducted within SR-3 from January thru March 2010 to remove the impacted tailings and fill. Approximately 2,000 cubic yards of mine tailings and fill have been removed from the area.

#### **Confirmatory Sampling**

Post-excavation base samples were collected for the previous failing parameters at previously sampled locations within the excavation. Locations were confirmed prior to sampling with the on-site USEPA or Army Corps of Engineers representative. To date, twenty-four (24) base samples have been collected. The post-excavation sample locations and analytical results are shown on Figure 1.

ARCADIS US, Inc.  
1 International Boulevard  
Suite 406  
Mahwah, New Jersey 07495  
Tel 201 684 1410  
Fax 201 684 1420  
[www.arcadis-us.com](http://www.arcadis-us.com)

ENVIRONMENTAL

Date:  
March 25, 2010

Contact:  
Erich Zimmerman

Phone:  
201.684.1410

Email:  
[ezimmerman@arcadis-us.com](mailto:ezimmerman@arcadis-us.com)

Our ref:  
NJ000604.0036.00001

**Conclusions**

Based on the analytical results, constituent concentrations within the upper portion of the SR-3 excavation do not exceed NJDEP residential direct-contact standards. Post-excavation sampling results confirm the effectiveness of the removal work, and ARCADIS requests approval for the backfill and restore the upper portion of SR-3.

Post-excavation samples PE-10, PE-20 and PE-25 within the flooded portion of SR-3 contained arsenic and other constituents at concentrations above the NJDEP direct-contact guidelines. Additional dewatering, removal, and sampling activities were conducted at these locations on March 24 and 25, 2010. The results of this sampling effort are pending. ARCADIS therefore requests approval to begin backfill and restoration activities within the upper portions of SR-3 while we await the results of sampling for the lower portion of the area. No work will be undertaken in the areas represented by the two pending samples without your prior approval.

Please feel free to contact me if you have any questions or require additional information.

Sincerely,  
ARCADIS, Inc



Erich Zimmerman, PE  
Project Manager

Copies:  
K. Petrone (NJDEP)  
B. Bussa (Ford)  
E. Mills (Ford)  
E. Carman (ARCADIS)